This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

- 1. (currently amended) A screening assay for the identification of <u>a</u> specific small organic molecule which acts as an antimicrobial by inhibiting or uncoupling enzyme I comprising:
- a) adding a test <u>small organic molecule</u> compound to a reaction mixture containing enzyme I and phosphoenolpyruvate; and
- b) measuring pyruvate levels in the presence of lactate dehydrogenase and NADH, where increased levels of pyruvate serve as an indication that the test <u>small organic molecule</u> eompound has uncoupling or inhibitory activity of enzyme I of the bacterial phosphotransferase system.
- 2. (currently amended) A screening assay for the identification of <u>a</u> specific small organic molecule which acts as an <u>antimicrobial</u> antimicrobials by inhibiting or uncoupling enzyme I comprising:
- a) adding a test <u>small organic molecule</u> compound to a reaction mixture containing enzyme I and phosphoenolpyruvate and a radiolabeled N-acetylglucoseamine <u>terminal</u> phosphate acceptor or <u>radiolabeled</u> glucose <u>terminal</u> phosphate acceptor;
- b) isolating the <u>radiolabeled</u> terminal phosphate acceptor and measuring the level of phosphorylation of the phosphate acceptor, where decreased levels of phosphorylation serve as an indication that the test <u>small organic molecule compound</u> has uncoupling or inhibitory activity on enzyme I of the bacterial phosphotransferase system.
- 3. (currently amended) The assay of Claim 2 where the <u>radiolabeled</u> terminal phosphate acceptor is N-acetyl glucosamine.
- 4. (currently amended) The assay of Claim 2 where the <u>radiolabeled</u> terminal phosphate acceptor is glucose.
- 5. (currently amended) The assay of Claim 1 or 2 wherein the <u>test</u> small organic molecule is synthesized from a combinatorial library.
- 6. (currently amended) The assay of Claim 1 or 2 wherein the <u>test</u> small organic molecule has a molecular weight under 1,500.

